	Application No.	Applicant(s)	
Notice of Allowability	09/941,364	SAHLMAN, KARL-GOSTA EMANUEL	
	Examiner	Art Unit	
	Phuong Phu	2631	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i) or other appropriate comm RIGHTS. This application is	n this application. If not included nunication will be mailed in due course. T	*HIS nitiative
1. $\boxtimes$ This communication is responsive to <u>the application filed</u>	<u>on 8/28/01</u> .		
2. 🛮 The allowed claim(s) is/are <u>1-22</u> .			
3. X The drawings filed on 28 August 2001 are accepted by the	e Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority to a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>	•	or (f).	
2.  Certified copies of the priority documents have	e been received in Applicati	on No	
<ol><li>Copies of the certified copies of the priority de</li></ol>	ocuments have been receive	ed in this national stage application from	the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirement	ts
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give			)F
6. CORRECTED DRAWINGS ( as "replacement sheets") mu	ıst be submitted.		
(a) 🔲 including changes required by the Notice of Draftsper	rson's Patent Drawing Revie	w ( PTO-948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examine Paper No./Mail Date</li></ul>	r's Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>			
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (PTO-152)	
<ol> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<u>=</u> "	Summary (PTO-413),	
3. ⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No	./Mail Date Amendment/Comment	
Paper No./Mail Date 6/19/02 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner'	Statement of Reasons for Allowance	
of Biological Material	9.  Other		
		•	

Application/Control Number: 09/941,364

Art Unit: 2631

## REASONS FOR ALLOWANCE

- 1. Claims 1-22 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

References (6363120), (6266517), (5949283), (6711217), (6271724), (6583739), (6437644), (6275106), (6359508), (6078216), (5877653), (6011434) and (5760646) are cited because they are pertinent to the claimed invention.

Regarding to independent claims 1 and 11, none of prior art of record teaches or suggests an apparatus comprising, in combinations with other limitations recited in the claims, a reference RF up-converter that converts a first one of driving signals to a desired RF reference signal; a predistortion RF up-converter that combines a second one of the driving signals with a predistortion signal and converts the combined pre-distorted signal to a RF predistortion signal; an amplifier that amplifies the RF predistortion signal; a comparator that compares a sample of the RF predistortion signal with the RF reference signal and outputs an error signal corresponding to the comparison; a wide-band feed forward loop that amplifies the error signal and combines, in anti-phase, the amplified error signal with the amplified RF predistortion signal to produce an output signal; a measurement RF down-converter that samples and measures the error signal to provide a corresponding digital sampled error signal to a controller; and an adaptive estimator processor operatively coupled to the controller to estimate the performance of the apparatus by comparing the measured error signal with a delayed copy of an input signal and provide estimate information to the controller to support adaptive updating of the controller.

Application/Control Number: 09/941,364

Art Unit: 2631

Page 3

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The

examiner can normally be reached on M-F (6:30-2:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Phu Primary Examiner Art Unit 2631

Phuong Phu 11/18/04

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PRIMARY EXAMINER